

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the instant application:

Listing of Claims:

1-49 (cancelled)

50. (previously presented) An oligonucleotide consisting of 16 or more nucleotides of SEQ ID NO:1, wherein said oligonucleotide comprises position 34,201 of SEQ ID NO:1, or a complement thereof.

51-60 (cancelled)

61. (currently amended) A kit for assaying for the presence of a mutation associated with Familial Dysautonomia in an individual comprising primers 18F (SEQ ID NO:82) and 23R (SEQ ID NO:84) that are capable of amplifying a region of IKAP of sufficient size to detect a FD1 mutation or a FD2 mutation, wherein said region amplified comprises a FD1 or a FD2 mutation.

62-64 (cancelled)

65. (currently amended) ~~The kit of claim 64, wherein said~~ A kit for assaying for the presence of a mutation associated with Familial Dysautonomia in an individual comprising primers are 19F (SEQ ID NO:83) and 23R (SEQ ID NO:84) that are capable of amplifying a region of IKAP of sufficient size to detect a FD1 mutation or a FD2 mutation, wherein said region amplified comprises a FD1 or a FD2 mutation.

66. (currently amended) The kit of claim 61, wherein the region amplified comprises a region extending from the beginning of exon 18 through exon 23 of SEQ ID NO:1, wherein said region amplified comprises position 33,714 of SEQ ID NO:1 an *IKBKAP* gene.

67. (currently amended) The kit of claim 61, wherein the region amplified comprises a region extending from the beginning of exon 19 through exon 23 of SEQ ID NO:1, wherein said region amplified comprises position 34,201 of SEQ ID NO:1 an *IKBKAP* gene.

68. (previously presented) The kit of claim 61, wherein the region amplified comprises position 2,397 of SEQ ID NO:2.

69-75. (cancelled)

76. (new) The oligonucleotide of claim 50, wherein said oligonucleotide comprises a cytosine at position 34,201 of SEQ ID NO:1.

77. (new) An oligonucleotide consisting of 16 or more nucleotides chosen from a region extending from the beginning of exon 19 through exon 20 of SEQ ID NO:1, wherein said oligonucleotide comprises position 33,714 of an *IKBKAP* gene, or a complement thereof.

78. (new) An oligonucleotide consisting of 16 or more nucleotides of SEQ ID NO:2, wherein said oligonucleotide comprises position 2,397 of SEQ ID NO:2, or a complement thereof.

79. (new) An oligonucleotide consisting of 16 or more nucleotides chosen from a region extending from the beginning of exon 19 through exon 20 of SEQ ID NO:1, wherein said oligonucleotide comprises position 33,714 of an *IKBKAP* gene, and wherein cytosine is present at position 33,714 of SEQ ID NO:1, or a complement of said oligonucleotide.

80. (new) An oligonucleotide consisting of 16 or more nucleotides of SEQ ID NO:2, wherein said oligonucleotide comprises position 2,397 of SEQ ID NO:2, and wherein cytosine is present at position 2,397 of SEQ ID NO:2, or a complement of said oligonucleotide.